

Title (en)

SENSORY LIGHTING SYSTEM AND METHOD FOR CHARACTERIZING AN ILLUMINATION SPACE

Title (de)

SENSORISCHES BELEUCHTUNGSSYSTEM UND VERFAHREN ZUR CHARAKTERISIERUNG EINES BELEUCHTUNGSRAUMS

Title (fr)

SYSTÈME ET PROCÉDÉ D'ÉCLAIRAGE SENSORIEL POUR CARACTÉRISER UN ESPACE D'ÉCLAIRAGE

Publication

**EP 2839719 B1 20190403 (EN)**

Application

**EP 13777655 A 20130419**

Priority

- US 201261687239 P 20120420
- US 2013037300 W 20130419

Abstract (en)

[origin: WO2013158955A1] Disclosed herein is an illumination system including an array of LED light sources for emitting light encoded with a modulation pattern, an array of sensors and a space characterization unit. The array of sensors receives emitted light scattered by an object. Each sensor determines a distance between the corresponding light source and the object using the modulation pattern. The space characterization unit uses the distance from each sensor to generate an elevation map indicating a presence of the object.

IPC 8 full level

**H05B 37/02** (2006.01); **G01S 17/04** (2020.01); **G06T 7/00** (2017.01); **G06V 10/141** (2022.01); **H05B 44/00** (2022.01)

CPC (source: EP KR US)

**G01S 17/04** (2020.01 - KR US); **G06T 7/521** (2017.01 - EP KR US); **G06V 10/141** (2022.01 - EP KR US); **G06V 20/52** (2022.01 - EP KR US); **G06V 40/103** (2022.01 - EP KR US); **H05B 45/10** (2020.01 - EP KR US); **H05B 45/3578** (2020.01 - KR); **H05B 47/10** (2020.01 - EP US); **H05B 47/115** (2020.01 - EP KR US); **G06T 2207/10016** (2013.01 - EP KR US); **G06T 2207/10152** (2013.01 - EP KR US); **H05B 45/3578** (2020.01 - EP US); **Y02B 20/40** (2013.01 - EP KR)

Cited by

CN109154491A; WO2021214523A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2013158955 A1 20131024; WO 2013158955 A8 20131219**; BR 112014026016 A2 20170627; BR 112014026016 A8 20210309; CN 104823522 A 20150805; CN 104823522 B 20170531; EP 2839719 A1 20150225; EP 2839719 A4 20160309; EP 2839719 B1 20190403; JP 2015519687 A 20150709; JP 2018018829 A 20180201; JP 2020038845 A 20200312; JP 2021153073 A 20210930; JP 7462231 B2 20240405; KR 102090483 B1 20200318; KR 20150021918 A 20150303; SG 11201406649T A 20141127; US 2015061509 A1 20150305; US 9363859 B2 20160607

DOCDB simple family (application)

**US 2013037300 W 20130419**; BR 112014026016 A 20130419; CN 201380032826 A 20130419; EP 13777655 A 20130419; JP 2015507205 A 20130419; JP 2017201713 A 20171018; JP 2019215393 A 20191128; JP 2021110771 A 20210702; KR 20147032597 A 20130419; SG 11201406649T A 20130419; US 201314394888 A 20130419